



12/02/10

## Technical Report for

**GEI Consultants, Inc.**

**Canton Airport Canton MA**

**00291-7**

**Accutest Job Number: M91216R**

**Sampling Date: 05/06/10**

### Report to:

**GEI Consultants, Inc.**

**Nslagowski@geiconsultants.com**

**ATTN: Naomi Slagowski**

**Total number of pages in report: 20**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

*Reza Fand*  
**Reza Fand**  
**Lab Director**

**Client Service contact: Kristen Blanchard 508-481-6200**

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

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## Sample Summary

GEI Consultants, Inc.

Job No: M91216R

Canton Airport Canton MA  
Project No: 00291-7

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
M91216-7R	05/06/10	15:58 SLS	05/07/10	SO	Soil	093820-DI-A-28-A
M91216-8R	05/06/10	16:05 SLS	05/07/10	SO	Soil	093820-DI-A-28-B
M91216-9R	05/06/10	16:12 SLS	05/07/10	SO	Soil	093820-DI-A-28-C
M91216-10R	05/06/10	15:41 SLS	05/07/10	SO	Soil	093820-DI-A-29-A
M91216-11R	05/06/10	15:49 SLS	05/07/10	SO	Soil	093820-DI-A-29-B
M91216-12R	05/06/10	15:54 SLS	05/07/10	SO	Soil	093820-DI-A-29-C

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** GEI Consultants, Inc.

**Job No** M91216R

**Site:** Canton Airport Canton MA

**Report Date** 6/7/2010 2:29:17 PM

6 Sample(s) were collected on 05/06/2010 and were received at Accutest on 05/07/2010 properly preserved, at 2.2 Deg. C and intact. These Samples received an Accutest job number of M91216R. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### Extractables by GC By Method SW846 8082

**Matrix** SO

**Batch ID:** OP21542

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- M91216-8R for Tetrachloro-m-xylene: Outside control limits due to possible matrix interference.

### Wet Chemistry By Method SM21 2540 B MOD.

**Matrix** SO

**Batch ID:** GN32017

- Sample(s) M91710-1DUP were used as the QC samples for Solids, Percent.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M91216R).

## Sample Results

## Report of Analysis

## Report of Analysis

Page 1 of 1

Client Sample ID:	093820-DI-A-28-A	Date Sampled:	05/06/10
Lab Sample ID:	M91216-7R	Date Received:	05/07/10
Matrix:	SO - Soil	Percent Solids:	39.1
Method:	SW846 8082 SW846 3540C		
Project:	Canton Airport Canton MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB30282.D	1	06/07/10	CZ	06/05/10	OP21542	GBB2049
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	250	ug/kg	
11104-28-2	Aroclor 1221	ND	250	ug/kg	
11141-16-5	Aroclor 1232	ND	250	ug/kg	
53469-21-9	Aroclor 1242	ND	250	ug/kg	
12672-29-6	Aroclor 1248	ND	250	ug/kg	
11097-69-1	Aroclor 1254	ND	250	ug/kg	
11096-82-5	Aroclor 1260	ND	250	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		30-150%
877-09-8	Tetrachloro-m-xylene	74%		30-150%
2051-24-3	Decachlorobiphenyl	84%		30-150%
2051-24-3	Decachlorobiphenyl	69%		30-150%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Page 1 of 1

Client Sample ID:	093820-DI-A-28-B	Date Sampled:	05/06/10
Lab Sample ID:	M91216-8R	Date Received:	05/07/10
Matrix:	SO - Soil	Percent Solids:	52.3
Method:	SW846 8082 SW846 3540C		
Project:	Canton Airport Canton MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB30283.D	1	06/07/10	CZ	06/05/10	OP21542	GBB2049
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	190	ug/kg	
11104-28-2	Aroclor 1221	ND	190	ug/kg	
11141-16-5	Aroclor 1232	ND	190	ug/kg	
53469-21-9	Aroclor 1242	ND	190	ug/kg	
12672-29-6	Aroclor 1248	ND	190	ug/kg	
11097-69-1	Aroclor 1254	ND	190	ug/kg	
11096-82-5	Aroclor 1260	ND	190	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	12265% <sup>a</sup>		30-150%
877-09-8	Tetrachloro-m-xylene	7801% <sup>a</sup>		30-150%
2051-24-3	Decachlorobiphenyl	88%		30-150%
2051-24-3	Decachlorobiphenyl	40%		30-150%

(a) Outside control limits due to possible matrix interference.

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

Page 1 of 1

Client Sample ID:	093820-DI-A-28-C	
Lab Sample ID:	M91216-9R	Date Sampled: 05/06/10
Matrix:	SO - Soil	Date Received: 05/07/10
Method:	SW846 8082 SW846 3540C	Percent Solids: 64.4
Project:	Canton Airport Canton MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB30284.D	1	06/07/10	CZ	06/05/10	OP21542	GBB2049
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	150	ug/kg	
11104-28-2	Aroclor 1221	ND	150	ug/kg	
11141-16-5	Aroclor 1232	ND	150	ug/kg	
53469-21-9	Aroclor 1242	ND	150	ug/kg	
12672-29-6	Aroclor 1248	ND	150	ug/kg	
11097-69-1	Aroclor 1254	ND	150	ug/kg	
11096-82-5	Aroclor 1260	ND	150	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	62%		30-150%
877-09-8	Tetrachloro-m-xylene	51%		30-150%
2051-24-3	Decachlorobiphenyl	89%		30-150%
2051-24-3	Decachlorobiphenyl	70%		30-150%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

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Client Sample ID:	093820-DI-A-29-A	Date Sampled:	05/06/10
Lab Sample ID:	M91216-10R	Date Received:	05/07/10
Matrix:	SO - Soil	Percent Solids:	38.0
Method:	SW846 8082 SW846 3540C		
Project:	Canton Airport Canton MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB30285.D	1	06/07/10	CZ	06/05/10	OP21542	GBB2049
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	260	ug/kg	
11104-28-2	Aroclor 1221	ND	260	ug/kg	
11141-16-5	Aroclor 1232	ND	260	ug/kg	
53469-21-9	Aroclor 1242	ND	260	ug/kg	
12672-29-6	Aroclor 1248	ND	260	ug/kg	
11097-69-1	Aroclor 1254	ND	260	ug/kg	
11096-82-5	Aroclor 1260	ND	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		30-150%
877-09-8	Tetrachloro-m-xylene	56%		30-150%
2051-24-3	Decachlorobiphenyl	118%		30-150%
2051-24-3	Decachlorobiphenyl	96%		30-150%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	093820-DI-A-29-B	Date Sampled:	05/06/10
Lab Sample ID:	M91216-11R	Date Received:	05/07/10
Matrix:	SO - Soil	Percent Solids:	48.5
Method:	SW846 8082 SW846 3540C		
Project:	Canton Airport Canton MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB30286.D	1	06/07/10	CZ	06/05/10	OP21542	GBB2049
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	200	ug/kg	
11104-28-2	Aroclor 1221	ND	200	ug/kg	
11141-16-5	Aroclor 1232	ND	200	ug/kg	
53469-21-9	Aroclor 1242	ND	200	ug/kg	
12672-29-6	Aroclor 1248	ND	200	ug/kg	
11097-69-1	Aroclor 1254	ND	200	ug/kg	
11096-82-5	Aroclor 1260	ND	200	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		30-150%
877-09-8	Tetrachloro-m-xylene	58%		30-150%
2051-24-3	Decachlorobiphenyl	112%		30-150%
2051-24-3	Decachlorobiphenyl	98%		30-150%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	093820-DI-A-29-C	Date Sampled:	05/06/10
Lab Sample ID:	M91216-12R	Date Received:	05/07/10
Matrix:	SO - Soil	Percent Solids:	67.9
Method:	SW846 8082 SW846 3540C		
Project:	Canton Airport Canton MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB30287.D	1	06/07/10	CZ	06/05/10	OP21542	GBB2049
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	150	ug/kg	
11104-28-2	Aroclor 1221	ND	150	ug/kg	
11141-16-5	Aroclor 1232	ND	150	ug/kg	
53469-21-9	Aroclor 1242	ND	150	ug/kg	
12672-29-6	Aroclor 1248	ND	150	ug/kg	
11097-69-1	Aroclor 1254	ND	150	ug/kg	
11096-82-5	Aroclor 1260	ND	150	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		30-150%
877-09-8	Tetrachloro-m-xylene	47%		30-150%
2051-24-3	Decachlorobiphenyl	95%		30-150%
2051-24-3	Decachlorobiphenyl	78%		30-150%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Misc. Forms

### Custody Documents and Other Forms

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**Includes the following where applicable:**

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle

# Chain-of-Custody Record

Laboratory: Accutest

Laboratory Job #

(Lab use only)

M91216R



400 Unicorn Park Drive  
Woburn, MA 01801  
TEL: 781-721-4098  
FAX: 781-721-4073

## Project Information

Project Name: Canton Airport

Project Number: 093820-E

Send Report to: Ray Siegner

Send Faxed Results to:

Send EDD to: labdata@geiconsultants.com

Project Location: Canton, MA

Project Manager: Sasha Osting

## Preservative

none none

## Analysis

Page 1 of 1

## Sample Handling

Sample Field Filtered

YES NO NA

Sampled Shipped With Ice

YES NO YES

## MCP PRESUMPTIVE CERTAINTY REQUIRED

YES NO

If Yes, Are MCP Analytical Methods Required?

YES NO

If Yes, Are Drinking Water Samples Submitted?

YES NO

If Yes, Have You Met Minimum Field QC Requirements?

YES NO

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	Extract PCBs 3540C	Extract PCBs 3545A					Sample Specific Remarks
		Date	Time										
-1	093820-D1-A-25-A	5/6/10	1633	SB	1	SL5	X	X					HOLD
-2	093820-D1-A-25-B		1636				X	X					
-3	093820-D1-A-25-C		1642				X	X					
-4	093820-D1-A-26-A		1618				X	X					
-5	093820-D1-A-26-B		1622				X	X					
-6	093820-D1-A-26-C		1628				X	X					
-7	093820-D1-A-27-A		1558				X	X					
-8	093820-D1-A-27-B		1605				X	X					
-9	093820-D1-A-27-C		1612				X	X					
-10	093820-D1-A-28-A		1541				X	X					
-11	093820-D1-A-28-B		1549				X	X					110
-12	093820-D1-A-28-C		1554				X	X					

## Turnaround Time (Business days):

Normal X Other

10 Day 7 Day

5 Day 3 Day

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.

## Additional Requirements/Comments/Remarks:

see Mark Warren regarding these samples

Relinquished by: (signature)

Date:

Time:

Received by: (signature)

Relinquished by: (signature)

Date:

Time:

Received by: (signature)

Relinquished by: (signature)

Date:

Time:

Received by: (signature)

Please HOLD all samples until notified by GEI

2.2.2

M91216R: Chain of Custody

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**Frank D'Agostino**

M91216

**From:** Haley, Heather [Hhaley@geiconsultants.com]  
**Sent:** Wednesday, May 26, 2010 10:47 AM  
**To:** Frank D'Agostino  
**Cc:** Siegner, Ray  
**Subject:** Canton Airport Samples to Run

Hey Frank,

We would like to run a few samples on hold for Canton Airport for PCBs using manual soxhlet extraction:  
Collected on 5/6/10:

093820-DI-A-28A  
093820-DI-A-28B  
093820-DI-A-28C  
093820-DI-A-29A  
093820-DI-A-29B  
093820-DI-A-29C

Let me know if you have any questions or concerns, or require any additional documentation.

Thanks,

Heather

Heather B. Haley, P.G.  
Project Geologist  
GEI Consultants, Inc.  
400 Unicorn Park Drive  
Woburn, MA 01801

phone (781) 721-4063  
cell (781) 424-9906  
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5/26/2010

**M91216R: Chain of Custody**  
**Page 2 of 2**



Massachusetts Department  
of Environmental Protection  
Bureau of Waste Site Cleanup

BWSC-CAM	Exhibit VII A-1
21 May 2004	Revision No. 3.2
Final	Page 10 of 32

Title: **MADEP MCP Response Action Analytical Report Certification Form**

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: <u>Accutest Laboratories of New England</u>	Project #: <u>M91216R</u>
Project Location: <u>Canton Airport Canton MA</u>	MADEP RTN <sup>1</sup> <u>None</u>

This form provides certifications for the following data set:  
M91216-10R, M91216-11R, M91216-12R, M91216-7R, M91216-8R, M91216-9R

Sample Matrices:	Groundwater	Soil/Sediment	X	Drinking Water	( )	Other:	( )	( )
<b>MCP SW-846 Methods Used</b>	8260B ( )	8151A ( )		8330 ( )		6010B ( )		7470A/1A ( )
	8270C ( )	8081A ( )		VPH ( )		6020 ( )		9014M <sup>2</sup> ( )
As specified in MADEP Compendium of Analytical Methods. (Check all that apply)	8082 (X)	8021B ( )		EPH ( )		7000 S <sup>3</sup> ( )		7196A ( )

1 List Release Tracking Number (RTN), if known  
2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method  
3 S - SW-846 Methods 7000 Series List Individual method and analyte

**An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty" status**

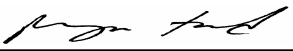
<b>A</b>	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No <sup>1</sup>
<b>B</b>	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No <sup>1</sup>
<b>C</b>	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No <sup>1</sup>
<b>D</b>	<b>VPH and EPH methods only:</b> Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No <sup>1</sup>

**A response to questions E and F below is required for "Presumptive Certainty" status**

<b>E</b>	Were all QC performance standards and recommendations for the specified methods achieved?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No <sup>1</sup>
		Refer to Narrative		
<b>F</b>	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No <sup>1</sup>
		Refer to Narrative		

<sup>1</sup> All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: <u></u>	Position: <u>Laboratory Director</u>
Printed Name: <u>Reza Tand</u>	Date: <u>06/07/2010</u>

## Internal Sample Tracking Chronicle

GEI Consultants, Inc.

Job No: M91216R

Canton Airport Canton MA

Project No: 00291-7

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91216-7R Collected: 06-MAY-10 15:58 By: SLS Received: 07-MAY-10 By: JB 093820-DI-A-28-A						
M91216-7R SM21 2540 B MOD.		02-JUN-10	MS			%SOL
M91216-7R SW846 8082		07-JUN-10 00:45	CZ	05-JUN-10	RJ	P8082SOXHLET
M91216-8R Collected: 06-MAY-10 16:05 By: SLS Received: 07-MAY-10 By: JB 093820-DI-A-28-B						
M91216-8R SM21 2540 B MOD.		02-JUN-10	MS			%SOL
M91216-8R SW846 8082		07-JUN-10 09:09	CZ	05-JUN-10	RJ	P8082SOXHLET
M91216-9R Collected: 06-MAY-10 16:12 By: SLS Received: 07-MAY-10 By: JB 093820-DI-A-28-C						
M91216-9R SM21 2540 B MOD.		02-JUN-10	MS			%SOL
M91216-9R SW846 8082		07-JUN-10 09:28	CZ	05-JUN-10	RJ	P8082SOXHLET
M91216-10R Collected: 06-MAY-10 15:41 By: SLS Received: 07-MAY-10 By: JB 093820-DI-A-29-A						
M91216-10R SM21 2540 B MOD.		02-JUN-10	MS			%SOL
M91216-10R SW846 8082		07-JUN-10 09:47	CZ	05-JUN-10	RJ	P8082SOXHLET
M91216-11R Collected: 06-MAY-10 15:49 By: SLS Received: 07-MAY-10 By: JB 093820-DI-A-29-B						
M91216-11R SM21 2540 B MOD.		02-JUN-10	MS			%SOL
M91216-11R SW846 8082		07-JUN-10 10:06	CZ	05-JUN-10	RJ	P8082SOXHLET
M91216-12R Collected: 06-MAY-10 15:54 By: SLS Received: 07-MAY-10 By: JB 093820-DI-A-29-C						
M91216-12R SM21 2540 B MOD.		02-JUN-10	MS			%SOL
M91216-12R SW846 8082		07-JUN-10 10:25	CZ	05-JUN-10	RJ	P8082SOXHLET



## GC Semi-volatiles

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### QC Data Summaries

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**Includes the following where applicable:**

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

## Method Blank Summary

Page 1 of 1

Job Number: M91216R  
Account: GEI GEI Consultants, Inc.  
Project: Canton Airport Canton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21542-MB	BB30279.D	1	06/06/10	CZ	06/05/10	OP21542	GBB2049

The QC reported here applies to the following samples:

Method: SW846 8082

M91216-7R, M91216-8R, M91216-9R, M91216-10R, M91216-11R, M91216-12R

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	98	ug/kg	
11104-28-2	Aroclor 1221	ND	98	ug/kg	
11141-16-5	Aroclor 1232	ND	98	ug/kg	
53469-21-9	Aroclor 1242	ND	98	ug/kg	
12672-29-6	Aroclor 1248	ND	98	ug/kg	
11097-69-1	Aroclor 1254	ND	98	ug/kg	
11096-82-5	Aroclor 1260	ND	98	ug/kg	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	89% 30-150%
877-09-8	Tetrachloro-m-xylene	78% 30-150%
2051-24-3	Decachlorobiphenyl	102% 30-150%
2051-24-3	Decachlorobiphenyl	96% 30-150%

# Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: M91216R  
Account: GEI GEI Consultants, Inc.  
Project: Canton Airport Canton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21542-BS	BB30280.D	1	06/07/10	CZ	06/05/10	OP21542	GBB2049
OP21542-BSD	BB30281.D	1	06/07/10	CZ	06/05/10	OP21542	GBB2049

The QC reported here applies to the following samples:

Method: SW846 8082

M91216-7R, M91216-8R, M91216-9R, M91216-10R, M91216-11R, M91216-12R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	261	248	95	252	97	2	40-140/30
11104-28-2	Aroclor 1221		ND		ND		nc	40-140/30
11141-16-5	Aroclor 1232		ND		ND		nc	40-140/30
53469-21-9	Aroclor 1242		ND		ND		nc	40-140/30
12672-29-6	Aroclor 1248		ND		ND		nc	40-140/30
11097-69-1	Aroclor 1254		ND		ND		nc	40-140/30
11096-82-5	Aroclor 1260	261	267	102	264	101	1	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	98%	94%	30-150%
877-09-8	Tetrachloro-m-xylene	39%	96%	30-150%
2051-24-3	Decachlorobiphenyl	113%	108%	30-150%
2051-24-3	Decachlorobiphenyl	105%	99%	30-150%

# Semivolatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M91216R  
Account: GEI GEI Consultants, Inc.  
Project: Canton Airport Canton MA

Method: SW846 8082 Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 <sup>a</sup>	S1 <sup>b</sup>	S2 <sup>a</sup>	S2 <sup>b</sup>
M91216-7R	BB30282.D	72.0	74.0	84.0	69.0
M91216-8R	BB30283.D	12265.0*	7801.0* <sup>c</sup>	88.0	40.0
M91216-9R	BB30284.D	62.0	51.0	89.0	70.0
M91216-10R	BB30285.D	77.0	56.0	118.0	96.0
M91216-11R	BB30286.D	85.0	58.0	112.0	98.0
M91216-12R	BB30287.D	67.0	47.0	95.0	78.0
OP21542-BS	BB30280.D	98.0	39.0	113.0	105.0
OP21542-BSD	BB30281.D	94.0	96.0	108.0	99.0
OP21542-MB	BB30279.D	89.0	78.0	102.0	96.0

Surrogate Compounds Recovery Limits

S1 = Tetrachloro-m-xylene 30-150%  
S2 = Decachlorobiphenyl 30-150%

- (a) Recovery from GC signal #1  
(b) Recovery from GC signal #2  
(c) Outside control limits due to possible matrix interference.